

WHAT IS CLAIMED IS:

- 1 1. A screen for use in a well, comprising:  
2 a base pipe;  
3 a filter media extending about a portion of the circumference of the base pipe and  
4 defining a first portion of the circumference that is covered by the screen material  
5 and a second portion of the circumference that is not covered by the screen  
6 material;  
7 an adjacent-screen device positioned adjacent to the second portion.

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1 2. The screen of claim 1, wherein the filter media is selected from a wire wrapping material,  
2 a mesh material, a pre-pack material, a woven mesh material, a sintered mesh material, a  
3 foil material, a wrap-around slotted sheet material, a wrap-around perforated sheet, and  
4 combination thereof.

- 1 3. The screen of claim 1, wherein the adjacent screen device comprises a control line.

- 1 4. The screen of claim 3, wherein the control line is a fiber optic line.

5. The screen of claim 4, wherein the fiber optic line comprises a distributed temperature sensor.

6. The screen of claim 4, wherein the fiber optic line is adapted to provide one or more of a temperature measurement, a pressure measurement, a sand detection measurement, a phase measurement, a seismic measurement, and an oil-water content measurement.

7. The screen of claim 3, wherein the control line is selected from an electric line, a fiber optic line, a hydraulic control line, and combinations thereof.

8. The screen of claim 1, wherein the adjacent screen device comprises an intelligent completions device.

9. The screen of claim 8 wherein the intelligent completions device comprises a sensor.

10. The screen of claim 8 wherein the intelligent completions device is selected from a gauge, a sensor, a valve, a sampling device, a temperature sensor, a pressure sensor, a flow-control device, a flow rate measurement device, an oil/water/gas ratio measurement device, a scale detector, an actuator, an equipment sensor, a vibration sensor, a sand

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6 detection sensor, a water detection sensor, a data recorder, a viscosity sensor, a density  
7 sensor, a bubble point sensor, a pH meter, a multiphase flow meter, a acoustic sand  
8 detector, a solid detector, a composition sensor, a resistivity array device, a resistivity  
9 array sensor, an acoustic device, an acoustic sensor, a telemetry device, a near infrared  
10 sensor, a gamma ray detector, an H<sub>2</sub>S detector, a CO<sub>2</sub> detector, a downhole memory unit,  
11 a downhole controller, a perforating device, a shape charge, a locator, and a fiber optic  
line.

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11. The screen of claim 8 wherein the intelligent completions device comprises a shape  
charge.

12. The screen of claim 11, further comprising a plurality of shape charges having a  
predetermined phasing.

13. The screen of claim 12, wherein the shape charges define a spiral phasing.

14. The screen of claim 1, wherein the adjacent screen device comprises a side conduit.

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1 15. The screen of claim 1, wherein the side conduit is selected from a shunt tube, a chemical  
2 injection line, a fluid conduit, and a hydraulic control line.

1 16. The screen of claim 1, wherein the adjacent screen device is selected from a control line,  
2 an intelligent control device, and a side conduit.

1 17. The screen of claim 1, further comprising a plurality of adjacent screen devices.

1 18. The screen of claim 1, wherein the second portion defines a longitudinal path along the  
2 screen.

1 19. The screen of claim 1, wherein the second portion defines a helical path along the screen.

1 20. The screen of claim 1, wherein the second portion defines an arcuate path along the  
2 screen.

1 21. The screen of claim 1, wherein the second portion is a cut-out portion of the screen and  
2 the adjacent-screen device is an intelligent completions device.

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28. The screen of claim 1, wherein the adjacent-screen device is a side conduit having a portion thereof defined by the base pipe.

29. The screen of claim 1, wherein the base pipe is unperforated.

30. The screen of claim 1, further comprising a protective member adapted to protect the screen-adjacent device.

31. The screen of claim 30, wherein the protective member is selected from a channel, a set of bars mounted to the base pipe, one or more protruding members, and one or more spacing members.

32. The screen of claim 31, further comprising:  
an outer member covering at least a portion of the second portion;  
the outer member and the base pipe defining a side passageway therebetween.

33. The screen of claim 30, wherein the protective member is a dovetail channel.

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34. The screen of claim 1, wherein the base pipe comprises a side pocket mandrel having a side pocket portion and a main bore portion.

1 35. The screen of claim 34, wherein the filter media surrounds the main bore portion.

1 36. The screen of claim 1, wherein the base pipe is expandable.

1 37. The screen of claim 36, wherein the second portion of the screen is a nonexpanding portion.

1 38. The screen of claim 1, further comprising:

2 an expandable base pipe;

3 an expandable shroud surrounding at least a portion of the expandable base pipe;

4 the filter media is disposed between the expandable base pipe and the expandable shroud.

1 39. The screen of claim 38, wherein the shroud forms an integral protective member.

40. The screen of claim 39, wherein the integral protective member is defines an internal cavity.

41. The screen of claim 38, wherein the shroud extends about a portion of the circumference of the base pipe only so that at least a portion of the second portion is uncovered by the shroud.

42. The screen of claim 38, further comprising a groove defined in the second portion.

43. The screen of claim 38, further comprising the base pipe defining a passageway in a wall thereof and a screen-adjacent device placed in the passageway.

44. The screen of claim 1, wherein the second portion is unperforated.

45. A method for completing a well, comprising:  
positioning a completion string in the well, the completion string having a screen therein,  
the screen defining a first portion that is covered by a filter media and a second  
portion that is uncovered by the filter media;



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providing a screen-adjacent device in the second portion of the screen.

1 46. The method of claim 45, further comprising routing a control line along the second  
2 portion.

1 47. The method of claim 45, further comprising routing a side conduit along the second  
2 portion.

1 48. The method of claim 47, further comprising injecting a fluid through the side conduit.

1 49. The method of claim 47, further comprising injecting at least one of a chemical, a  
2 fracturing fluid, and a gravel slurry through the side conduit.

1 50. The method of claim 45, further comprising routing a fiber optic line along the second  
2 portion.

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1 51. The method of claim 50, further comprising measuring one or more of a temperature, a  
2 pressure, a particle detection, a phase detection, a seismic measurement, and an oil-water  
3 content in the well with the fiber optic line.

1 52. The method of claim 45, further comprising placing an intelligent completions device  
2 adjacent the second portion.

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1 53. The method of claim 45, further comprising measuring a well parameter using a sensor  
2 placed adjacent the second portion.

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1 54. The method of claim 45, further comprising perforating the well using a shape charge  
2 placed adjacent the second portion.

1 55. The method of claim 45, further comprising gravel packing the well while measuring a  
2 parameter with one or more of a sensor and a fiber optic line placed adjacent the second  
3 portion

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56. The method of claim 45, further comprising fracturing the well while measuring a parameter with one or more of a sensor and a fiber optic line placed adjacent the second portion.

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57. The method of claim 45, further comprising administering a well treatment to the well while measuring a parameter with one or more of a sensor and a fiber optic line placed adjacent the second portion.

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58. The method of claim 45, further comprising expanding the screen.

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59. An expandable sand screen for a well, comprising:  
an expandable base pipe;  
a filter media disposed on a first portion of the base pipe;  
a screen-adjacent device positioned adjacent a second portion of the base pipe that is remains uncovered by the filter media.

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60. The expandable sand screen of claim 59, further comprising an expandable shroud.

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61. ~~The expandable sand screen of claim 59, further comprising a protective member adapted to reduce the likelihood of damage to the screen-adjacent device.~~

1 62. An expandable screen for a well, comprising:

2 a base pipe;

3 a shroud;

4 a filter media between the base pipe and the shroud; and

5 a control line passageway extending at least a portion of the length of the screen.

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1 63. The expandable screen of claim 62, wherein the control line passageway is provided in  
2 one of the base pipe and the shroud.

1 64. The expandable screen of claim 62, wherein the control line passageway is selected from  
2 a groove, a dovetail groove, an internal passageway, a channel, a dovetail channel, and a  
3 space between a plurality of sections of the shroud.